C. C. ARMSTRONG.

FRAME FOR HOLDING WIRE CLOTH OR OTHER FABRIC.

APPLICATION FILED FEB. 18, 1907.

900,691. **Patented Oct. 13, 1908.**

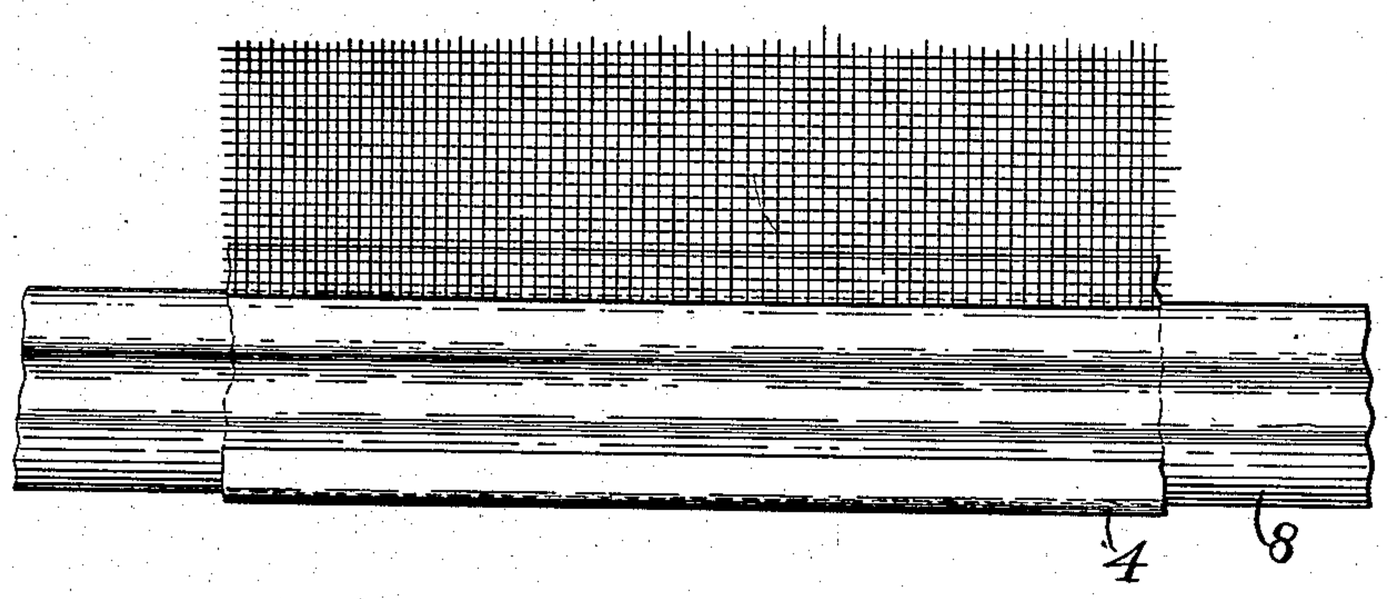

Fig. 1.

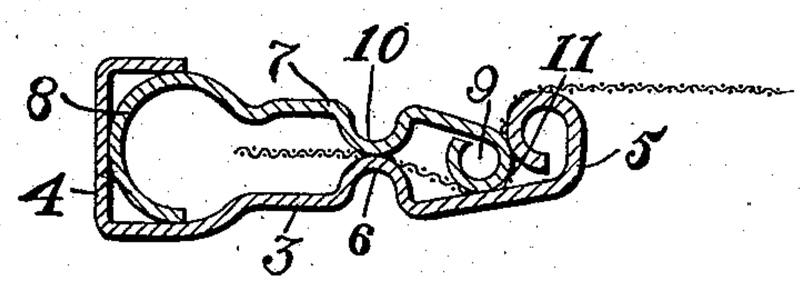

Fig. 2.

Attest:
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UNITED STATES PATENT OFFICE.

CHARLES C. ARMSTRONG, OF MARYSVILLE, OHIO.

FRAME FOR HOLDING WIRE-CLOTH OR OTHER FABRIC.

No. 900,691. Specification of Letters Patent. Patented Oct. 13, 1908.

Application filed February 18, 1907. Serial No. 358,053.

To all whom it may concern:

Be it known that I, CHARLES C. ARMSTRONG, a citizen of the United States, residing at Marysville, Ohio, have invented certain new and useful Improvements in Frames for Holding Wire-Cloth or other Fabric, of which the following is a specification.

My invention relates to frames for holding screen cloth for window screens, or for like purposes, and is an improvement over the frame shown in Letters Patent of the United States granted to me July 17, 1906, #825952. In said patent I disclose a main frame member and a clamping member having pivotal connection therewith, the said members having clamping inner portions between which the screen cloth lies and which when the clamping member is swung downwardly into position to hold the screen clamps the same between itself and the frame member, and as a specific feature of the frame disclosed in the said patent, I employed means for securing the said members in clamping relation, said means consisting, in the embodiment of my invention illustrated, of screws.

My present improvements relate to the arrangement and relative construction of the parts whereby I am enabled to dispense with this specific means of holding the clamping members together, and instead of employing any holding devices, I simply spring the parts together in which position they are maintained by the frictional contact between them.

The invention consists in the features hereinafter described and particularly pointed out in the claims.

In the accompanying drawing,—Figure 1 is a plan view of the members composing the frame. Fig. 2 is a cross sectional view of the same.

In these drawings, 3 indicates the main frame member formed with a channel portion 4 and a turned-over or rolled edge 5. This member I preferably make of metal, though I do not limit myself in this respect, as it may be made of wood or other material, and at an intermediate part of this member I form a rib 6 projecting inwardly in respect to the said members, and where, as in the form illustrated herein, I make the main member of metal, this rib is formed by corrugating the metal at this point.

The clamping member 7 is formed of sheet metal having a rolled or turned outer edge 8 adapted to turn like a pivot within the channel 4 of the main frame member and having its inner edge rolled as at 9 to coöperate with the rolled edge 5 to stretch and clamp the wire screen or other cloth between them. This clamping member is also corrugated as at 10, thus providing an inwardly extending rib opposite the rib 6. I so construct and arrange the two members relatively to each other that the clamping member by pressing it down in relation to the main frame member and with the wire interposed will be sprung into place. This resilient or spring action of the members is rendered possible by their peculiar construction, involving as it does the rolled edges, this being particularly true of the clamping member and being true also of the main frame member when the latter is made of sheet metal, as in the form illustrated. Further than this, the longitudinal corrugation in the clamping member lends itself to this spring or resilient action of this member when it is forced under considerable pressure into connection with the main frame member; and the same is true of the corrugated main frame member when this is formed of sheet metal. The spring action is afforded both by the rolled or turned edge at the pivot point of the clamping member, and also by its rolled inner edge. Further, I so arrange and construct the parts that when the clamping member is pressed to its seat in the main frame member, the rolled edge of the clamping member will pass with its high point or crest 11 slightly below what may be termed the high point or crest of the rolled edge of the main frame member, so that the spring action of the parts will tend to hold the members together. It will be seen that the screen cloth or other fabric extends between the rolled edges, thence between the rolled edge of the clamping member and the inner face of the main frame member, and thence between the ribs or corrugations of the two members. By this construction the said fabric is securely held in place.

I claim as my invention:

1. In combination in a frame for holding a fabric, a main frame member formed of sheet metal having a channeled outer portion and a rolled inner portion, a clamping member having a rolled outer portion in pivotal connection with the channeled portion of the main member and having a rolled inner portion co-acting with the rolled inner portion of the main frame member, the said

members having lateral resilience and the clamping member being held solely by springing the same into connection with the main frame member, substantially as described.

2. In combination in a frame for holding a fabric, a main frame member formed of sheet metal having a channeled outer portion and a rolled inner portion, a clamping member having a rolled outer portion in pivotal connection with the outer portion of the main frame member and having a rolled inner portion coacting with the rolled inner portion of the main frame member and lying with its crest slightly below that of the rolled inner portion of the main frame member, the said members having lateral resilience and the clamping member being held solely by springing the same into connection with the main frame member, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

CHARLES C. ARMSTRONG.

Witnesses:
HOWARD M. JONES,
NANNIE V. TYSON.